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## IN THE CLAIMS:

17. (Currently Amended) A distance measuring apparatus for measuring a distance from an imaging element to an object by imaging the same electronically so as to optically form forming an image of the object on the imaging element through a lens to image the object electronically, comprising:

a plurality of sets of light masking members having which each have a light passing opening, the light passing openings being different in position from each other and openings, respectively, the plurality of sets of light masking members being capable of being selectively arranged in turn between the object and the lens;

means for passing light from an object to be distance-measured through the openings of the plurality of sets of light masking members to project images of the object to be distance-measured onto the imaging element;

means for detecting amounts of displacement of the projected images on the imaging element; and

means for obtaining a distance of the object to be distance-measured on the basis of the detected amounts of displacement.

18. (Currently Amended) A distance measuring method of measuring a distance from an imaging element to an object by optically taking in an image thereof by the imaging element, comprising:

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preparing a plurality of sets of light masking members which each have a light passing openings opening, the light passing openings being different in position from each other, respectively:

preparing a displacement-to-distance conversion equation obtained from information indicating a correspondence relationship between distance values from the object to the imaging element and amounts of displacement of the object;

passing light from an object to be distance-measured through the openings of the plurality ef-sets of light masking members <u>in turn</u> to project images of the object to be distance-measured to an image forming plane of the imaging element;

detecting amounts of displacement of the projected images on the image forming plane; and

obtaining a distance to the object to be distance-measured by substituting the detected amounts of displacement into -a- the displacement-to-distance conversion equation.

- 19. (New) A distance measuring apparatus as claimed in Claim 17, wherein the plurality of light masking members are a plurality of aperture plates which each have at least one hole as the light passing opening thereof.
- 20. (New) A distance measuring apparatus as claimed in Claim 17, wherein the plurality of light masking members are provided by a liquid crystal panel having a plurality of selectable cells, where cells are selected being different in position from each other to effect differing light masking members in turn.

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- 21. (New) A distance measuring apparatus as claimed in Claim 17, wherein the light passing openings are arranged at differing timings between the object and the lens.
- 22. (New) A distance measuring apparatus as claimed in Claim 17, wherein the light passing openings are arranged sequentially between the object and the lens.
- 23. (New) A distance measuring method as claimed in Claim 18, wherein the plurality of light masking members are a plurality of aperture plates which each have at least one hole as the light passing opening thereof.
- 24. (New) A distance measuring method as claimed in Claim 18, wherein the plurality of light masking members are provided by a liquid crystal panel having a plurality of selectable cells, where cells are selected being different in position from each other to effect differing light masking members in turn.
- 25. (New) A distance measuring method as claimed in Claim 18, wherein the light passing openings are arranged at differing timings between the object and the lens.
- 26. (New) A distance measuring method as claimed in Claim 18, wherein the light passing openings are arranged sequentially between the object and the lens.